

2005 National Weatherization Training Conference Draft Pre-Conference Agenda

Sunday, December 11th

7:00 a.m. – 6:30 p.m.

Registration/Information Desk Open

8:00 a.m. – 5:00 p.m. All Day Pre-Conference Training Sessions

8:00 a.m. – 12:00 noon Dense Pack Cellulose Insulation; Methods and Verification of Density

Dense packing cellulose in walls – at least 3.5 pounds per cubic foot – has distinct advantages, but how are we to know if we are installing it correctly? What is the best insulation machine? What is the best delivery system? Can we do it with a nozzle? Is a tube required? And, how can we be sure that the cellulose is dense packed throughout the wall? This session will identify the requirements for the cost-effective installation of dense pack cellulose in walls and evaluate current methods for verifying proper installation.

By attending this session, participants will:

- Learn the latest techniques for installing wall insulation in existing homes;
- Understand the importance of proper insulation density, installation technique, machine capacity, and machine settings for installing dense pack cellulose; and,
- Learn about methods for verifying the density of installed cellulose insulation, including core sampling, bag counting, and digit testing.

Presenter: **Rick Karg**, R.J. Karg Associates, Topsham, ME

8:00 a.m. – 5:00 p.m. In-Depth Training on Version 8 of MHEA

This all day training session, for new users of MHEA or users with limited experience, will provide an intensive overview on the Manufactured Home Energy Audit (MHEA). Version 8 of the Weatherization Assistant was released this summer.

By attending this session, participants will:

- Learn how to install, start, and navigate through the Weatherization Assistant and MHEA;
- Hear about each of MHEA's building description data fields;
- Participate as a group in entering house information into MHEA for an example home;
- Become familiar with MHEA's output report of recommendations; and,
- Be instructed on how to calculate and enter measure costs, fuel costs, and other information into MHEA's setup library.

Presenter: **Mark Ternes**, Oak Ridge National Laboratory, Oak Ridge, TN

8:00 a.m. – 5:00 p.m. In-Depth Training on Version 8 of NEAT

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This session, for new users of NEAT or users with limited experience, will provide an intensive overview of the National Energy Audit (NEAT).

By attending this session, participants will:

- Learn how to install, start, and navigate through the Weatherization Assistant and NEAT;
- Hear about each of NEAT's building description data fields;
- Participate as a group in entering house information into NEAT for an example home;
- Become familiar with NEAT's output report of recommendations; and,
- Be instructed on how to calculate and enter measure costs, fuel costs, and other information.

Presenter: **Mike Gettings**, Oak Ridge National Laboratory, Oak Ridge, TN

8:00 a.m. – 5:00 p.m. **Lead Safe Weatherization**

Session Leader: **Menda Richardson**, DC Energy Office, Washington, DC

Initially directed toward state and municipal agencies, community and social service organizations, home (or code) inspection companies, and contractors, this training will be beneficial to the remodeling and renovation industry, including sales, marketing, and administrative personnel as well as workers and supervisory staff. It is also designed to be very informative for general rehabilitation workers such as drywallers, painters, carpenters, and the general homeowner handyman.

This course will cover the following topics:

- Module 1 - "Why Should I Be Concerned About Lead Dust?"
- Module 2 - "Set Up Your Work Space To Contain Lead Dust"
- Module 3 - "Safe Work Practices"
- Module 4 - "Clean Up & Check Your Work"
- Module 5 - "Planning The Job"

Presenters: **John Combs** and **Martanaze Hancock**, MasiMax Environmental Health and Safety Services, Reston, VA

8:00 a.m. – 5:00 p.m. **Training Trainers -- Lead Safe Weatherization**

The U.S. Department of Energy (DOE) re-issued a Lead Safe Weatherization policy, July 12, 2002, in which DOE requires Weatherization workers be trained in lead safe weatherization. This session will demystify all of the lead rules and regulations and will provide proven advice on how to handle lead-safe weatherization at the local and state level. Learn practical tools, setups and methods to assure client and worker protection. This session is for weatherization managers, crews, and contractors and will also train trainers on how to present the curriculum Montana State University (MSU) developed under contract to DOE to fulfill this requirement. Lead-Safe Weatherization Manual is provided as well as certificate on successful completion of course.

Presenter: **Luke Elliott**, Montana State University Extension Service, Bozeman, MT

9:00 a.m. – 5:00 p.m. **Building Shell Basics**

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By attending this session, participants will:

- Experience classroom training while learning the basics of addressing the building shell;
- Explore the principles of heat movement, establishing thermal and pressure boundaries, critical junction points, and basic pressure concepts; and,
- Practice blowing high-density insulation into wall and kneewall props, using the blower door, and using two-part foam for air sealing.

Presenters: **Anthony Cox and Lil Weston**, Community Housing Partners Corporation/New River Center for Energy Research and Training, Christiansburg, VA

8:30 a.m. – 9:30 a.m.

Planning Committee Meeting

10:30 a.m. – 12:00 noon

Weatherization *Plus* Briefing
Open to all conference attendees.

12:00 noon – 1:00 p.m.

Lunch Break on Your Own

12:00 noon – 4:00 p.m.

Exhibitor Installation

1:00 p.m. – 2:30 p.m. Grants.gov

This session, focused on Grants.gov and its impact on the administration of the program, will allow participants to understand its implementation, review revisions to 2005/2006 Application and supporting documents, discuss the future of Grants.gov, and discuss the status of WinSAGA.

Presenter: **Philip Ammirato and Lou Sousa**, U.S. Department of Energy, Washington, DC

1:00 p.m. – 2:30 p.m. Stress Management

By attending this session, participants will:

- Explore how stress may be affecting you;
- Be able to identify signs and symptoms of stress; and,
- Receive tools and techniques to help you live stress-free.

Presenter: **JamesEtta Reed**, Pennsylvania Department of Community and Economic Development, Harrisburg, PA

1:00 p.m. – 4:30 p.m. Enhancing & Expanding Effective Electrical Energy Efficiency

This session will focus on the basic understanding of effective electrical energy efficient practices, lighting applications, and new energy efficient appliance information and technologies that combine with the Low-Income Weatherization Assistance Program and that help motivate real use changes.

By attending this session, participants will:

- Have real-world studies and experiences to demonstrate the practical application of these technologies, techniques and approaches for their clients and their agencies;
- Understand the costs – benefits associated with electrical energy efficient practices, lighting options and appliances and understand the cost-effectiveness of this application;
- Discuss motivation and investment: why change, how to change, what is managed;

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- Pick up practical tips, tools, and resources for the participants (e.g., useful equipment, techniques, web sites, contact information, how-to guides, etc.); and,
- Receive case studies of several examples.

Presenter: **Todd Hoener**, Golden Valley Electric Association, Fairbanks, AK

1:00 p.m. – 4:30 p.m. Financial Management Training

The session covers the implementation of 10 CFR 600 financial management regulations and cost principles into the overall operations of the weatherization program. Specific areas to be addressed include financial management standards, cash management, program income, required procurement standards, cost allocation, and allowability of costs.

By attending this session, participants will:

- Have the opportunity to discuss challenges faced in local agency financial operations; and,
- Discuss methods for strengthening and streamlining financial operations.

Presenter: **Susan White**, ACKCO American Indian Professional Services, Phoenix, AZ

1:00 p.m. – 4:30 p.m. Grant Writing

Grant writing is in a transitional stage with increased use of on-line applications and grant information that is only available on the web. As conventional sources of funding for low-income programs diminish, managers must stay on the cutting edge to successfully compete for government and foundation funds. This is an in-depth session addressing the changes in the grant writing process for low-income programs. Mr. Smith will also be teaching grant writing shortcuts and timesavers to help you work smarter and faster.

Presenter: **Jack Smith**, The Smith Group, Roswell, GA

1:00 p.m. – 4:30 p.m. New WAP Directors and Staff Orientation

By attending this session, participants will:

- Learn about the history of the WAP and the basic text for operation;
- Learn about the state plan process and limited WinSAGA use;
- Learn how to use the program regulations for supporting program management; and,
- Gain tips on how to integrate resources, use training & technical assistance funds effectively, and monitor local agencies.

Presenters: **Bob Adams**, National Association for State Community Services Programs, Washington, DC;
Beth Cahall, U.S. Department of Energy, Philadelphia, PA

1:00 p.m. – 4:30 p.m. Pressure Balancing Structures

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This course will explain how to conduct a pressure diagnostics test that verifies a pressure balance problem exists. This class will also show what techniques are used to correct pressure problems and how to determine the best practice for correcting problems. Worse case problems, appliance zone pressure problems, combustion appliance draft issues, room and zone pressure along with HVAC air-flow balancing issues will be discussed. The presenter will explain how these problems could be related and how the fixes, in many cases, are the same. Understand the tools used for testing and methods used to fix the problems.

By attending this session, participants will:

- Learn basic HVAC air balancing diagnostics procedures;
- Learn how to diagnose and test dwellings with pressure problems;
- Learn how to apply cost effective solutions to pressure problems that you encounter; and,
- Gain an understanding of the effects of duct leakage, interior door closure, exhaust fans, and combustion appliances have on pressure problems in a dwelling.

Presenters: **Tom Brodbeck**, Multnomah County's Office of School and Community Partnerships, Portland, OR; **Vincent Pacheco**, Community Services Consortium, Corvallis, OR

~~1:00 p.m. – 4:30 p.m. Understanding High-Performance Windows~~

~~By attending this session, participants will develop an understanding of the science of fenestration (windows) that will enable participants to:~~

- ~~• Select the correct high-performance product;~~
- ~~• Read and understand the energy performance label and the structural performance label;~~
- ~~• Develop an understanding of ASTM requirements for installing new and retrofit windows; and,~~
- ~~• Develop the skills needed to specify the correct fenestration product.~~

~~Presenter: **James O'Bannon**, Richard Heath & Associates, Inc., Chico, CA~~

1:00 p.m. – 5:00 p.m. Combustion Analysis

This classroom session discusses the use of combustion analyzers for the purpose of tuning and improving the safety and efficiency of forced air heating systems and boilers. Topics covered will be combustion, carbon-monoxide flame temperature and draft, and negative pressure influences on draft. Combustion principles and theory will also be discussed. There will be a definite focus towards the understanding of all information received from a combustion analyzer and how interpret and utilize the information to your full potential.

Presenter: **Erik Rasmussen**, Bacharach Institute of Technical Training, New Kensington, PA

1:00 p.m. – 5:00 p.m. Ensuring Acceptable Indoor Air Quality in Weatherized Dwellings

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For more than a decade, many state weatherization programs have been using the "Standard for Acceptable Indoor Air Quality" (ASHRAE 62) as a basis for house tightening and ventilation. Compliance with this standard is often verified with the calculation of a Building Tightness Limit. A year ago a new standard, "Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings" (ASHRAE 62.2), was published, making the older standard obsolete. The new standard may have a significant impact on low-income weatherization program procedures by increasing the number of weatherized homes requiring continuous ventilation and the manner in which we use Building Tightness Limits. This session will cover the requirements of this new standard and the previous ASHRAE 62 standard it replaces. Data from a ventilation pilot study by the Wisconsin Weatherization Program will be included along with a menu of solutions to ventilation requirements in existing dwellings, including exhaust-only and balanced ventilation options.

By attending this session, participants will:

- Understand the differences between ASHRAE 62 and 62.2 ventilation standards;
- Learn the procedures for ensuring compliance with ASHRAE 62 and ASHRAE 62.2 ventilation standards; and,
- Learn about the menu of solutions for ensuring acceptable indoor air quality in weatherized dwellings.

Presenter: **Rick Karg**, R.J. Karg Associates, Topsham, ME

2:30 p.m. – 3:00 p.m.

Break

3:00 p.m. – 4:30 p.m. Time Management

This session will address the importance of planning and time scheduling and will give fundamental guidelines on clearly deciding what time is needed for what activity, event, and task; conducting a needs assessment of activity, destination, and arrival/departure factors; the importance of time in the decision-making process; and time and how it relates to meeting goals and objectives.

Presenter: **Carolyn Gravely-Moss**, Crisis Management Introspect, Washington, DC

4:00 p.m. – 6:00 p.m.

Exhibitor Meet & Greet